

G. T. WALTERS.

Corn Mill.

No. 3,434.

Patented Feb. 12, 1844

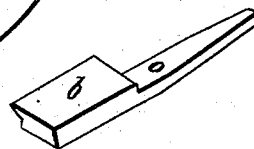
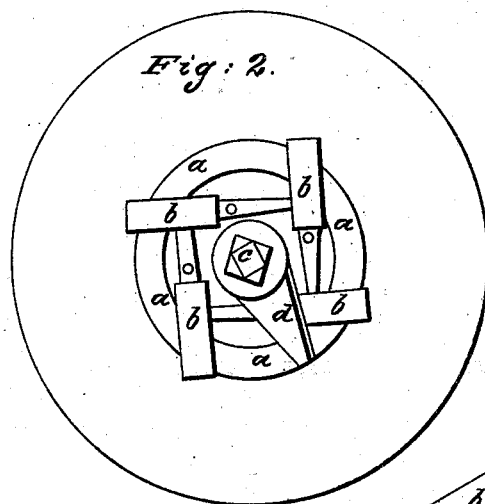
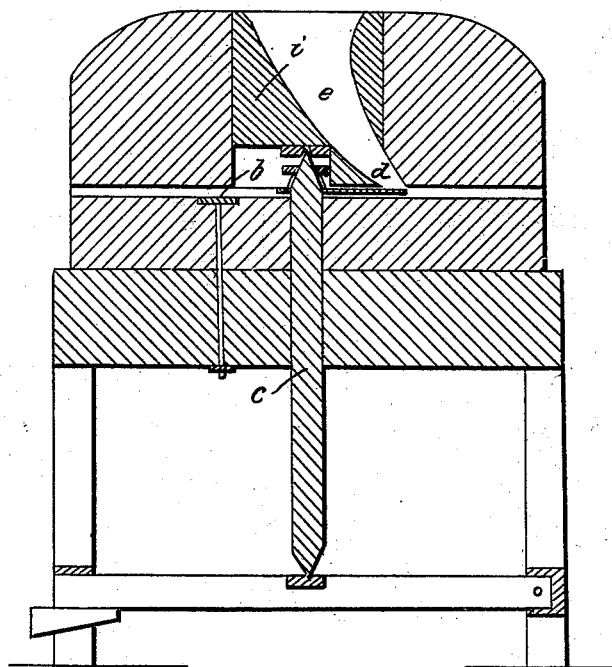


Fig: 1.



UNITED STATES PATENT OFFICE.

GEO. T. WALTERS, OF NICHOLASVILLE, KENTUCKY.

GRINDING-MILL.

Specification of Letters Patent No. 3,434, dated February 12, 1844.

To all whom it may concern:

Be it known that I, GEORGE T. WALTERS, of Nicholasville, in the county of Jessamine and State of Kentucky, have invented a new and useful Improvement in Mills for Grinding Corn and Cobs; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which are made a part of this specification.

The nature of my improvement consists in placing adjustable knives over a circular or segment groove in a tangential position, within the circumference of the eye of the runner or a little larger—and furnishing the spindle with a knife affixed thereto which revolves around just over those first named and cuts off the cobs as they fall down between them from the end of the conductor.

In constructing my improvement I use a common pair of mill stones. Into the lower or bed stone a circular groove or segment grooves (*a*) are cut (see Fig. 2.) Across the above named grooves four, more or less, knives (*b*) are put which are let into the stone; a recess being cut for each. The body of each knife is a straight bar of iron with a cutting edge of steel, and having a shank project from its inner end, through which a bolt passes, that fastens it to the stone, said bolt also extends down through the bed stone and is fastened with a nut underneath; by unscrewing the nut the knife can be raised, adjusted, or removed if required, the edges of these knives lie in a tangential line with a circle inside of and concentric with the groove (*a*).

On the spindle, below the balance rind, a knife (*d*) is fastened that projects out radially therefrom and revolves around with

it over the knives (*b*) and in contact therewith so as to cut whatever comes between them like shears. The runner which is hung in the usual way has its eye filled with a cylinder of wood (*i*) which goes down over the balance rind to a level with the knife (*d*). In this wood a trumpet mouthed conductor (*e*) is made which expands to the whole size of the eye at top, and gradually decreases in size and inclines to one side as it descends terminating below just over the recesses or grooves (*a*) in the lower stone, (this is shown in section, Figure 1.)

The cobs and corn pass down the conductor from the hopper as the runner revolves and are cut off between the knives, the angle at which the lower knives are placed aids in pushing them out between the stones where they are ground. As the lower dull they can be taken out and sharpened and when worn away may be set up as will readily be perceived by their construction and arrangement.

Having thus fully described my improvement I wish it to be understood that I do not claim stationary knives in the bed stone as that has been done before, but

What I do claim as my invention and desire to secure by Letters Patent is—

The movable, adjustable knives (*b*) placed tangentially, in combination with the revolving knife (*d*) situated under the balance rind and attached to the spindle, all constructed and arranged substantially in the manner and for the purpose herein described.

G. T. WALTERS.

Witnesses:

J. J. GREENOUGH,
PETER PETERSON,